

9/25/02

To: WILLIAM DOWLING

Re: 08/912,565 US 5,865,521

Attached are search results.

**No U. S. litigation was found in searches of
Lexis-Nexis and Questel-Orbit databases.**

**If more searching or explanation is needed, please
let me know.**

**Thanks,
Darcy Bates
STIC-EIC2800
306-5419
CP4-9C 18**

**PALM INTRANET**Day : Tuesday
Date: 9/24/2002
Time: 15:18:49**Application Number Information**Application Number: **08/912565****Assignments**Filing Date: **08/18/1997**Effective Date: **08/18/1997**Application Received: **08/18/1997**Patent Number: **5865521**Issue Date: **02/02/1999**Date of Abandonment: **00/00/0000**Attorney Docket Number: **JAO-39791**Status: **150 /PATENTED CASE**Confirmation Number: **4795**Title of Invention: **PROJECTION-TYPE DISPLAY APPARATUS**Examiner Number: **68272 / DOWLING, WILLIAM**Group Art Unit: **2851**Class/Subclass: **353/031.000**Lost Case: **NO**

Interference Number:

Unmatched Petition: **NO**L&R Code: **Secrecy Code:1**Third Level Review: **NO**Secrecy Order: **NO**Status Date: **01/07/1999**

Bar Code	Location	Location Date	Chrg to Loc	Charge to Name	Emp. ID	Infra Loc
08912565	28U2 TC-2800 SPRE, CP4 06E10	09/23/2002	28D1	No Charge to Name	HPHAN	CP4/06/E 14

Appln Search Another: Application#

or Patent# PCT / / or PG PUBS # Attorney Docket # Bar Code #

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PALM INTRANET

Day : Tuesday
Date: 9/24/2002
Time: 15:20:19

Continuity Information for 08/912565

Parent Data

No Parent Data

Child Data09163163 is a continuation of 0891256509774645 is a reissue of 0891256510014937 is a reissue of 09163163[Appln Info](#)[Contents](#)[Petition Info](#)[Atty/Agent Info](#)[Continuity
Data](#)[Foreign Data](#)[Invento](#)

Search Another: Application#

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Source: [Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Patents](#) > [U.S. Patents](#) > [Utility Patents](#) ⓘ

Terms: **patno=5865521** ([Edit Search](#))

08912565 () 5865521 February 2, 1999

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
5865521

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February 2, 1999

Projection-type display apparatus

INVENTOR: Hashizume, Toshiaki, Suwa, JPX; Iechika, Hisashi, Suwa, JPX; Ogawa, Yasunori, Suwa, JPX; Haba, Shinji, Suwa, JPX; Yajima, Akitaka, Suwa, JPX

APPL-NO: 08912565 ()

FILED-DATE: August 18, 1997

GRANTED-DATE: February 2, 1999

PRIORITY: August 19, 1996 - 8-217652, Japan (JP); July 15, 1997 - 9-190004, Japan (JP)

ASSIGNEE-AT-ISSUE: Seiko Epson Corporation, Tokyo, JPX

ASSIGNEE-AFTER-ISSUE: February 27, 1998 - ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS)., SEIKO EPSON CORPORATION 4-1, NISHISHINJUKU 2-CHOME, SHINJUKU-KU TOKYO 163, JAPAN,, Reel and Frame Number: 009012/0309

LEGAL-REP: Oliff & Berridge, PLC

PUB-TYPE: February 2, 1999 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US)

US-MAIN-CL: 353#038

US-ADDL-CL: 353#020, 353#031, 353#037, 353#101, 359#009

SEARCH-FLD: 353#38 , 353#20 , 353#31 , 353#34 , 353#37 , 353#101 , 353#119 , 353#69 , 353#70

IPC-MAIN-CL: G 03B021#14

PRIM-EXMR: Dowling, William

REF-CITED:

[5098184](#), 1992, United States (US)

[5418583](#), 1995, United States (US)

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patno=5865521

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Optional: Restrict by Date

☒ **No Date Restrictions**☐

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Terms: **patno is 6000802** ([Edit Search](#))

00163163 () 6000802 December 14, 1999

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
6000802

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[Link to Claims Section](#)

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December 14, 1999

Projection-type display apparatus

REISSUE: December 3, 2001 - Reissue Application filed Ex. Gp.: 2851; Re. S.N. 10/014,937 April 30, 2002

INVENTOR: Hashizume, Toshiaki, Suwa, JPX; Iechika, Hisashi, Suwa, JPX; Ogawa, Yasunori, Suwa, JPX; Haba, Shinji, Suwa, JPX; Yajima, Akitaka, Suwa, JPX

APPL-NO: 00163163 ()

FILED-DATE: September 30, 1998

GRANTED-DATE: December 14, 1999

PRIORITY: August 19, 1996 - 8-217652, Japan (JP); July 15, 1997 - 9-190004, Japan (JP)

ASSIGNEE-AT-ISSUE: Seiko Epson Corporation, Tokyo, JPX

LEGAL-REP: Oliff & Berridge, PLC

PUB-TYPE: December 14, 1999 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US)

REL-DATA:

Addition of Ser. No. 912565, August 18, 1997

US-MAIN-CL: 353#038

US-ADDL-CL: 349#005, 349#061, 353#020, 353#031

SEARCH-FLD: 353##31 , 353##20 , 353##33 , 353##34 , 353##37 , 353##38 , 353##101 , 353##98 , 353##99 , 353##119 , 353##69 , 353##70 , 349##5 , 349##7 , 349##8 , 349##9 , 349##61 , 349##62

IPC-MAIN-CL: G 03B021#14

PRIM-EXMR: Dowling, William

REF-CITED:

Source: [Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Patents](#) > [U.S. Patents](#) > [Utility Patents](#) ⓘ

Terms: **patno is 6247817** ([Edit Search](#))

09501656 () 6247817 June 19, 2001

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
6247817

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◆ [Get Drawing Sheet 1 of 14](#)

June 19, 2001

Projector

INVENTOR: Ogawa, Yasunori - Suwa, Japan (JP); Haba, Shinji - Suwa, Japan (JP); Yajima, Akitaka - Suwa, Japan (JP); Hashizume, Toshiaki - Suwa, Japan (JP); Iechika, Hisashi - Suwa, Japan (JP)

APPL-NO: 09501656 ()

FILED-DATE: February 10, 2000

GRANTED-DATE: June 19, 2001

PRIORITY: August 19, 1996 - 8-217652, Japan (JP); July 2, 1997 - 9-177453, Japan (JP)

ASSIGNEE-AT-ISSUE: Seiko Epson Corporation, Tokyo, Japan (JP), 03

LEGAL-REP: Oliff & Berridge, PLC

PUB-TYPE: June 19, 2001 - Utility Patent having no previously published pre-grant publication (B1)

PUB-COUNTRY: United States (US)

REL-DATA:

Continuation of Ser. No. 08/912566, August 18, 1997, GRANTED PATENT 6142634, Utility Patent having no previously published pre-grant publication (A)

US-MAIN-CL: 353#038

US-ADDL-CL: 353#119, 353#020

SEARCH-FLD: 353#038 , 353#020 , 353#098 , 353#099 , 353#119 , 353#101 , 353#100

IPC-MAIN-CL: 7G 03B021#14

PRIM-EXMR: Dowling, William

REF-CITED:

[4645319](#), February, 1987, Fekete, United States (US)

[5092671](#), March, 1992, Van Os, United States (US)

[5098184](#), March, 1992, Van Den Brandt, United States (US)

[5278680](#), January, 1994, Karasawa et al., United States (US)

Source: [Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Patents](#) > [U.S. Patents](#) > [Utility Patents](#) ⓘ

Terms: **patno is 6142634** ([Edit Search](#))

08912566 () 6142634 November 7, 2000

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
6142634

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[Link to Claims Section](#)

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November 7, 2000

Projector

INVENTOR: Ogawa, Yasunori, Suwa, JPX; Haba, Shinji, Suwa, JPX; Yajima, Akitaka, Suwa, JPX; Hashizume, Toshiaki, Suwa, JPX; Iechika, Hisashi, Suwa, JPX

APPL-NO: 08912566 ()

FILED-DATE: August 18, 1997

GRANTED-DATE: November 7, 2000

PRIORITY: August 19, 1996 - 8-217652, Japan (JP); July 2, 1997 - 9-177453, Japan (JP)

ASSIGNEE-AT-ISSUE: Seiko Epson Corporation, Tokyo, JPX

ASSIGNEE-AFTER-ISSUE: February 3, 1998 - ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS)., SEIKO EPSON CORPORATION 4-1, NISHISHINJUKU 2-CHOME, SHINJUKU-KU TOKYO 163, JAPAN,, Reel and Frame Number: 008935/0997

LEGAL-REP: Oliff & Berridge, PLC

PUB-TYPE: November 7, 2000 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US)

US-MAIN-CL: 353#038

US-ADDL-CL: 353#101

SEARCH-FLD: 353#38 , 353#20 , 353#31 , 353#34 , 353#37 , 353#101 , 353#119 , 353#98 , 353#99 , 353#69 , 353#70 , 349#8 , 349#9

IPC-MAIN-CL: G 03B021#14

PRIM-EXMR: Dowling, William

REF-CITED:

[4645319](#), 1987, United States (US)

[5092671](#), 1992, United States (US)

[5098184](#), 1992, United States (US)

9/25/02

US 5,865,521

08/912565

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Selected file: PLUSPAT

Search statement 3

?us5865521/pn

** SS 3: Results 1

Search statement 4

?prt fu legalall max

1/1 PLUSPAT - (C) QUESTEL-ORBIT

PN - US5865521 A 19990202 [US5865521]

TI - (A) Projection-type display apparatus

PA - (A) SEIKO EPSON CORP (JP)

IN - (A) HASHIZUME TOSHIKI (JP); IECHIKA HISASHI (JP); OGAWA YASUNORI (JP); HABA SHINJI (JP); YAJIMA AKITAKA (JP)

AP - US91256597 19970818 [1997US-0912565]

PR - JP19000497 19970715 [1997JP-0190004]

- JP21765296 19960819 [1996JP-0217652]

IC - (A) G03B-021/14

EC - H04N-009/31V

PCL - ORIGINAL (O) : 353038000; CROSS-REFERENCE (X) : 353020000 353031000
353037000 353101000 359009000

DT - Corresponding document

CT - US5098184; US5418583; US5626409; US5662401; JP3-111806

STG - (A) United States patent

AB - An output light from an light source lamp unit 8 in a projection-type display apparatus illuminates liquid-crystal light valves 925R, 925G and 925B for three colors via an integrator optical system 923. A superimposing lens 930 that is a component of the integrator optical system 923 as a uniform illumination optical system is arranged such that the mounting position of the superimposing lens 930 is fine-adjustable in a direction orthogonal to an optical axis 1a. By fine-adjusting the mounting position of the superimposing lens 930, the position of an illumination area B is adjusted such that the illumination area includes the image forming area A of the liquid-crystal light valve. It is not necessary to assure a wide margin around the image forming area A to cover the offset of the position of the illumination area B. As a result, the utilization of illumination light is heightened and a bright projected image results.

1/1 LGST - (C) LEGSTAT

PN - US 5865521 [US5865521]

AP - US 912565/97 19970818 [1997US-0912565]

DT - US-P

ACT - 19970818 US/AE-A

APPLICATION DATA (PATENT)

{US 912565/97 19970818 [1997US-0912565]}

- 19980227 US/AS02

ASSIGNMENT OF ASSIGNOR'S INTEREST

SEIKO EPSON CORPORATION 4-1, NISHISHINJUKU 2-CHOME, SHINJUKU-KU TOKYO 163, JAPAN * HASHIZUME, TOSHIKI : 19980217; IECHIKA, HISASHI : 19980217; OGAWA, YASUNORI : 19980217; HABA, SHINJI : 19980217; YAJIMA : 19980217

- 19990202 US/A

9/25/02

US 5,865,521

08/912565

PATENT
UP - 2000-06

Search statement 4

?file inpadoc

Selected file: INPADOC

Search statement 3

?fam us5865521/pn

1 Patent Groups
** SS 3: Results 11

Search statement 4

?famstate nonstop

1/11 INPADOC - (C) INPADOC

PN - CN 1175707 A 19980311 [CN1175707]
TI - PROJECTION TYPE DISPLAY DEVICE
IN - HASHIZUME TOSHIAKI [JP]; IECHIKA HISASHI [JP]; OGAWA YASUNORI [JP]
PA - SEIKO EPSON CORP [JP]
AP - CN 97116050/97-A 19970815 [1997CN-0116050]
PR - JP 217652/96-A 19960819 [1996JP-0217652]
- JP 190004/97-A 19970715 [1997JP-0190004]
IC - G03B-021/00

2/11 INPADOC - (C) INPADOC

PN - EP 825472 A2 19980225 [EP-825472]
TI - PROJECTION-TYPE DISPLAY APPARATUS
LA - ENG
IN - HASHIZUME TOSHIAKI [JP]; IECHIKA HISASHI [JP]; OGAWA YASUNORI [JP];
HABA SHINJI [JP]; YAJIMA AKITAKA [JP]
PA - SEIKO EPSON CORP [JP]
AP - EP 97306211/97-A 19970815 [1997EP-0306211]
PR - JP 217652/96-A 19960819 [1996JP-0217652]
- JP 190004/97-A 19970715 [1997JP-0190004]
IC - G02B-027/10; H04N-009/31
DS - DE* GB*

1/1 LEGALI - (C) LEGSTAT

PN - EP 825472 [EP-825472]
AP - EP 97306211/97 19970815 [1997EP-0306211]
DT - EP-P
ACTE- 19970815 EP/AE-A
EP-APPLICATION
{EP 97306211/97 19970815 [1997EP-0306211]}
- 19980225 EP/AK-A2 [+]
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT:
DE GB
- 19980225 EP/A2 [+]
PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT

9/25/02

US 5,865,521

08/912565

- 19990421 EP/AK-A3 [+]
DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
- 19990421 EP/A3 [+]
SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)
- 19991110 EP/17P [+]
REQUEST FOR EXAMINATION FILED
19990915
- 20000105 EP/AKX [+]
PAYMENT OF DESIGNATION FEES
DE GB
- 20000315 EP/17Q [+]
FIRST EXAMINATION REPORT
20000131

UP - 2000-11

3/11 INPADOC - (C) INPADOC

PN - EP 825473 A2 19980225 [EP-825473]
TI - PROJECTOR APPARATUS
LA - ENG
IN - OGAWA YASUNORI [JP]; YAJIMA AKITAKA [JP]; IECHIKA HISASHI [JP]; HABA
SHINJI [JP]; HASHIZUME TOSHIKI [JP]
PA - SEIKO EPSON CORP [JP]
AP - EP 97306309/97-A 19970819 [1997EP-0306309]
PR - JP 217652/96-A 19960819 [1996JP-0217652]
- JP 177453/97-A 19970702 [1997JP-0177453]
IC - G02B-027/10; H04N-009/31
DS - DE* GB*

1/1 LEGALI - (C) LEGSTAT

PN - EP 825473 [EP-825473]
AP - EP 97306309/97 19970819 [1997EP-0306309]
DT - EP-P
ACTE- 19970819 EP/AE-A
EP-APPLICATION
{EP 97306309/97 19970819 [1997EP-0306309]}

- 19980225 EP/AK-A2 [+]
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT:
DE GB
- 19980225 EP/A2 [+]
PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT
- 19990421 EP/AK-A3 [+]
DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
- 19990421 EP/A3 [+]
SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)
- 19991117 EP/17P [+]
REQUEST FOR EXAMINATION FILED
19990922
- 20000105 EP/AKX [+]
PAYMENT OF DESIGNATION FEES
DE GB
- 20000315 EP/17Q [+]
FIRST EXAMINATION REPORT
20000128

UP - 2000-11

9/25/02

US 5,865,521

08/912565

4/11 INPADOC - (C) INPADOC

PN - EP 825472 A3 19990421 [EP-825472]
TI - PROJECTION-TYPE DISPLAY APPARATUS
LA - ENG
IN - HASHIZUME TOSHIAKI [JP]; IECHIKA HISASHI [JP]; OGAWA YASUNORI [JP];
HABA SHINJI [JP]; YAJIMA AKITAKA [JP]
PA - SEIKO EPSON CORP [JP]
AP - EP 97306211/97-A 19970815 [1997EP-0306211]
PR - JP 217652/96-A 19960819 [1996JP-0217652]
- JP 190004/97-A 19970715 [1997JP-0190004]
IC - G02B-027/10; H04N-009/31
DS - AT* BE* CH* DE* DK* ES* FI* FR* GB* GR* IE* IT* LI* LU* MC* NL* PT* SE*

1/1 LEGALI - (C) LEGSTAT

PN - EP 825472 [EP-825472]
AP - EP 97306211/97 19970815 [1997EP-0306211]
DT - EP-P
ACTE- 19970815 EP/AE-A
EP-APPLICATION
{EP 97306211/97 19970815 [1997EP-0306211]}
- 19980225 EP/AK-A2 [+]
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT:
DE GB
- 19980225 EP/A2 [+]
PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT
- 19990421 EP/AK-A3 [+]
DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
- 19990421 EP/A3 [+]
SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)
- 19991110 EP/17P [+]
REQUEST FOR EXAMINATION FILED
19990915
- 20000105 EP/AKX [+]
PAYMENT OF DESIGNATION FEES
DE GB
- 20000315 EP/17Q [+]
FIRST EXAMINATION REPORT
20000131
UP - 2000-11

5/11 INPADOC - (C) INPADOC

PN - EP 825473 A3 19990421 [EP-825473]
TI - PROJECTOR APPARATUS
LA - ENG
IN - OGAWA YASUNORI [JP]; YAJIMA AKITAKA [JP]; IECHIKA HISASHI [JP]; HABA
SHINJI [JP]; HASHIZUME TOSHIAKI [JP]
PA - SEIKO EPSON CORP [JP]
AP - EP 97306309/97-A 19970819 [1997EP-0306309]
PR - JP 217652/96-A 19960819 [1996JP-0217652]
- JP 177453/97-A 19970702 [1997JP-0177453]
IC - G02B-027/10; H04N-009/31
DS - AT* BE* CH* DE* DK* ES* FI* FR* GB* GR* IE* IT* LI* LU* MC* NL* PT* SE*

1/1 LEGALI - (C) LEGSTAT

9/25/02

US 5,865,521

08/912565

PN - EP 825473 [EP-825473]
AP - EP 97306309/97 19970819 [1997EP-0306309]
DT - EP-P
ACTE- 19970819 EP/AE-A
EP-APPLICATION
{EP 97306309/97 19970819 [1997EP-0306309]}
- 19980225 EP/AK-A2 [+]
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT:
DE GB
- 19980225 EP/A2 [+]
PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT
- 19990421 EP/AK-A3 [+]
DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
- 19990421 EP/A3 [+]
SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)
- 19991117 EP/17P [+]
REQUEST FOR EXAMINATION FILED
19990922
- 20000105 EP/AKX [+]
PAYMENT OF DESIGNATION FEES
DE GB
- 20000315 EP/17Q [+]
FIRST EXAMINATION REPORT
20000128
UP - 2000-11

6/11 INPADOC - (C) INPADOC

PN - JP 10115799 A2 19980506 [JP10115799]
TI - PROJECTION TYPE DISPLAY DEVICE
IN - OGAWA TAKANORI; HASHIZUME TOSHIKI; HABA SHINJI; IECHIKA HISASHI;
YAJIMA FUMITAKA
PA - SEIKO EPSON CORP
AP - JP 177453/97-A 19970702 [1997JP-0177453]
PR - JP 177453/97-A 19970702 [1997JP-0177453]
- JP 217652/96-A 19960819 [1996JP-0217652]
IC - G02B-027/18; G02B-027/28; G02F-001/13; G02F-001/1335; H04N-005/74

7/11 INPADOC - (C) INPADOC

PN - JP 10115803 A2 19980506 [JP10115803]
TI - PROJECTION TYPE DISPLAY DEVICE
IN - HASHIZUME TOSHIKI; IECHIKA HISASHI; OGAWA TAKANORI; HABA SHINJI;
YAJIMA FUMITAKA
PA - SEIKO EPSON CORP
AP - JP 190004/97-A 19970715 [1997JP-0190004]
PR - JP 190004/97-A 19970715 [1997JP-0190004]
- JP 217652/96-A 19960819 [1996JP-0217652]
IC - G02B-027/28; G02F-001/13; G02F-001/1335; H04N-005/74

8/11 INPADOC - (C) INPADOC

PN - US 6142634 A 20001107 [US6142634]
TI - PROJECTOR
IN - OGAWA YASUNORI [JP]; HABA SHINJI [JP]; YAJIMA AKITAKA [JP]; HASHIZUME
TOSHIKI [JP]; IECHIKA HISASHI [JP]
PA - SEIKO EPSON CORP [JP]
AP - US 912566/97-A 19970818 [1997US-0912566]

9/25/02

US 5,865,521

08/912565

PR - JP 217652/96-A 19960819 [1996JP-0217652]
- JP 177453/97-A 19970702 [1997JP-0177453]
IC - G03B-021/14

1/1 LEGALI - (C) LEGSTAT

PN - US 6142634 [US6142634]

AP - US 912566/97 19970818 [1997US-0912566]

DT - US-P

ACTE- 19970818 US/AE-A

APPLICATION DATA (PATENT)

{US 912566/97 19970818 [1997US-0912566]}

- 20001107 US/A

PATENT

UP - 2000-48

9/11 INPADOC - (C) INPADOC

PN - US 6247817 BA 20010619 [US6247817]

TI - PROJECTOR

IN - OGAWA YASUNORI [JP]; HABA SHINJI [JP]; YAJIMA AKITAKA [JP]; HASHIZUME
TOSHIAKI [JP]; IECHIKA HISASHI [JP]

PA - SEIKO EPSON CORP [US]

AP - US 501656/00-A 20000210 [2000US-0501656]

PR - US 501656/00-A 20000210 [2000US-0501656]

- JP 217652/96-A 19960819 [1996JP-0217652]

- JP 177453/97-A 19970702 [1997JP-0177453]

- US 912566/97-A1 19970818 [1997US-0912566]

IC - G03B-021/14

1/1 LEGALI - (C) LEGSTAT

PN - US 6247817 [US6247817]

AP - US 501656/00 20000210 [2000US-0501656]

DT - US-P

ACTE- 20000210 US/AE-A

APPLICATION DATA (PATENT)

{US 501656/00 20000210 [2000US-0501656]}

- 20010619 US/BA

PATENT (NO PREVIOUS PRE-GRANT PUBLICATION)

UP - 2001-29

10/11 INPADOC - (C) INPADOC

PN - US 5865521 A 19990202 [US5865521]

TI - PROJECTION-TYPE DISPLAY APPARATUS

IN - HASHIZUME TOSHIAKI [JP]; IECHIKA HISASHI [JP]; OGAWA YASUNORI [JP];
HABA SHINJI [JP]; YAJIMA AKITAKA [JP]

PA - SEIKO EPSON CORP [JP]

AP - US 912565/97-A 19970818 [1997US-0912565]

PR - JP 217652/96-A 19960819 [1996JP-0217652]

- JP 190004/97-A 19970715 [1997JP-0190004]

IC - G03B-021/14

1/1 LEGALI - (C) LEGSTAT

PN - US 5865521 [US5865521]

AP - US 912565/97 19970818 [1997US-0912565]

DT - US-P

9/25/02

US 5,865,521

08/912565

ACTE- 19970818 US/AE-A
APPLICATION DATA (PATENT)
{US 912565/97 19970818 [1997US-0912565]}
- 19980227 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
SEIKO EPSON CORPORATION 4-1, NISHISHINJUKU 2-CHOME, SHINJUKU-KU TOKYO
163, JAPAN * HASHIZUME, TOSHIKI : 19980217; IECHIKA, HISASHI :
19980217; OGAWA, YASUNORI : 19980217; HABA, SHINJI : 19980217; YAJIMA
: 19980217
- 19990202 US/A
PATENT
UP - 2000-06

11/11 INPADOC - (C) INPADOC
PN - US 6000802 A 19991214 [US6000802]
TI - PROJECTION-TYPE DISPLAY APPARATUS
IN - HASHIZUME TOSHIKI [JP]; IECHIKA HISASHI [JP]; OGAWA YASUNORI [JP];
HABA SHINJI [JP]; YAJIMA AKITAKA [JP]
PA - SEIKO EPSON CORP [JP]
AP - US 163163/98-A 19980930 [1998US-0163163]
PR - US 163163/98-A 19980930 [1998US-0163163]
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- US 912565/97-A1 19970818 [1997US-0912565]
IC - G03B-021/14

1/1 LEGALI - (C) LEGSTAT
PN - US 6000802 [US6000802]
AP - US 163163/98 19980930 [1998US-0163163]
DT - US-P
ACTE- 19980930 US/AE-A
APPLICATION DATA (PATENT)
{US 163163/98 19980930 [1998US-0163163]}
- 19991214 US/A
PATENT
- 20020430 US/RF
REISSUE APPLICATION FILED
20011203
UP - 2002-20

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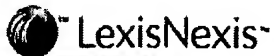
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